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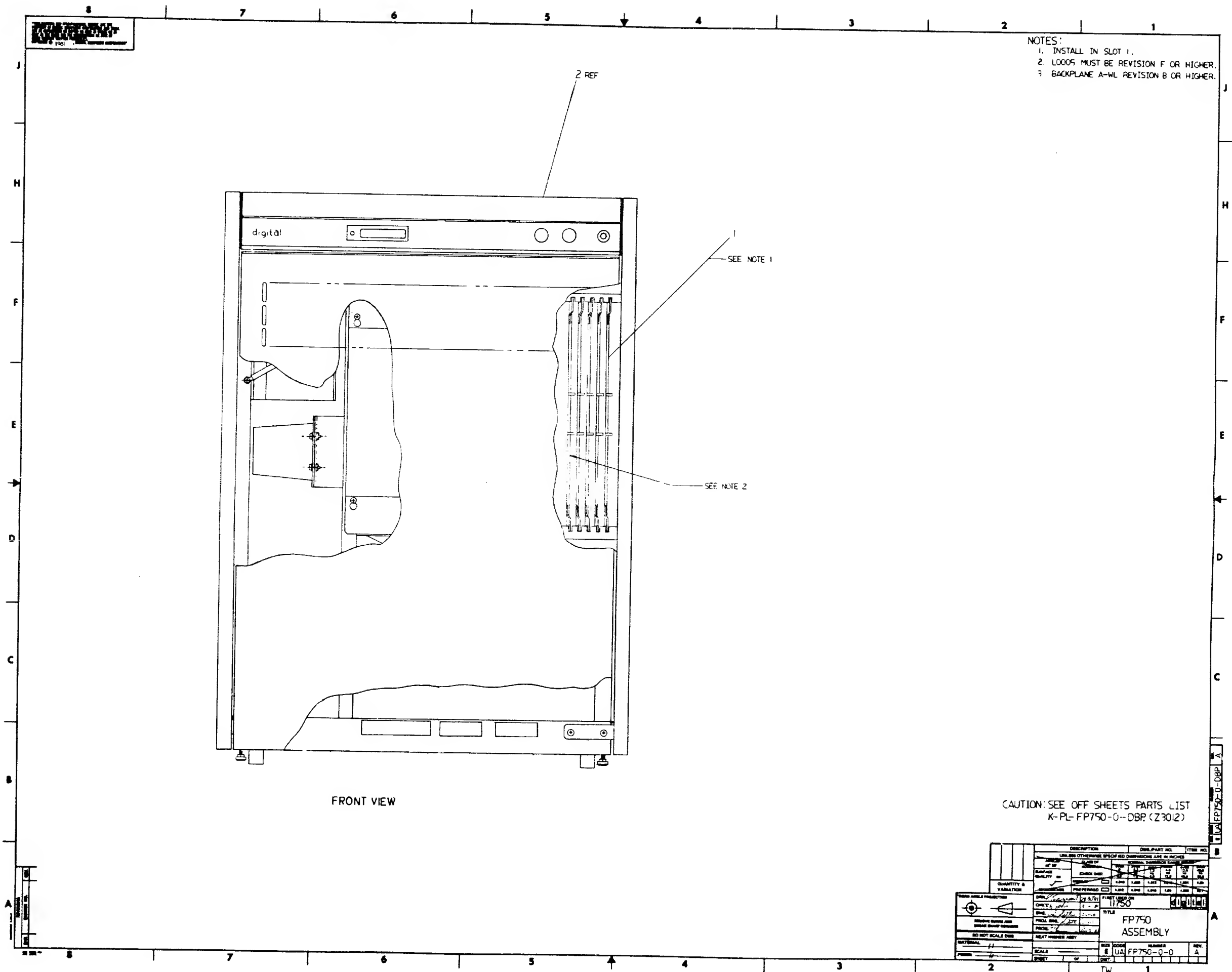
B-TC-FP750-0-1	FP750
E-UA-FP750-0-0	FP750
K-PL-FP750-0-DBP	FP750
B-DD-L0001-0-0	FPA
E-UA-L0001-0-0	FPA Unit Assembly
K-PL-L0001-0-DBP	FPA Parts List
E-EC-5013880-0-0	FPA Etch Cut Drawing
D-CS-L0001-0-1 thru -0-30	FPA Circuit Schematic

FP750

Digital Equipment Corporation
MP01269

REVISIONS	REV		USED ON OPTION/MODEL	DRN.	DATE	TITLE: FP750 ASSEMBLY	digital											
	CHG. NO.			11750			CHK'D	DATE										
							L. Levin	3 DEC 81										
							PROJ. ENG.	DATE										
							12/2/81	3 DEC 81										
DATE						FIELD SERV.	DATE	SIZE	CODE	NUMBER				REV.				
								B	TC	FP750-0-1				A				
								DIST.										
			SHEET 1 OF 1		George P. White		3 Dec 81											

TW



- NOTES:
1. INSTALL IN SLOT 1.
 2. LOOPS MUST BE REVISION F OR HIGHER.
 3. BACKPLANE A-WL REVISION B OR HIGHER.

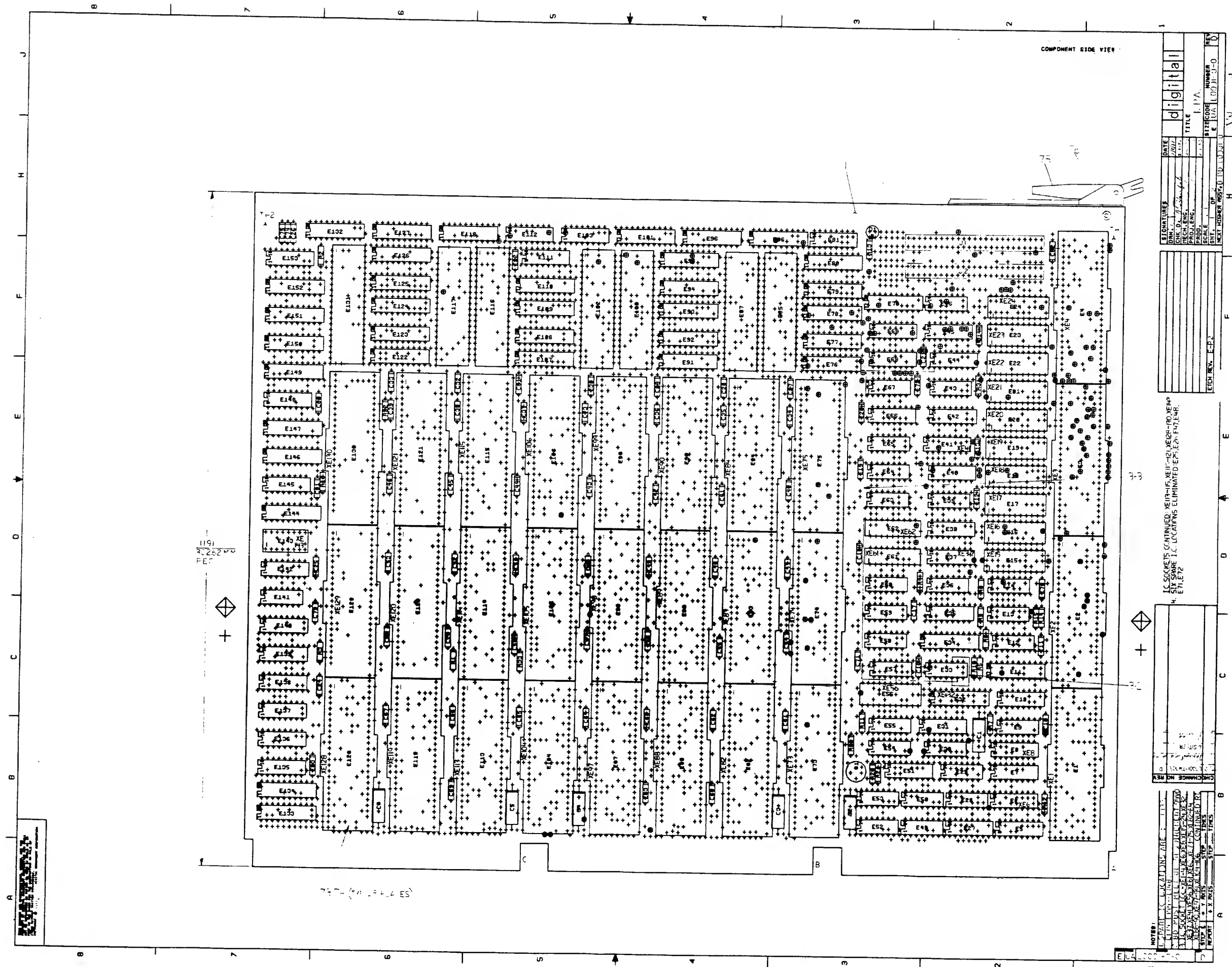
CAUTION: SEE OFF SHEETS PARTS LIST
K-PL- FP750-0--DBP (Z3012)

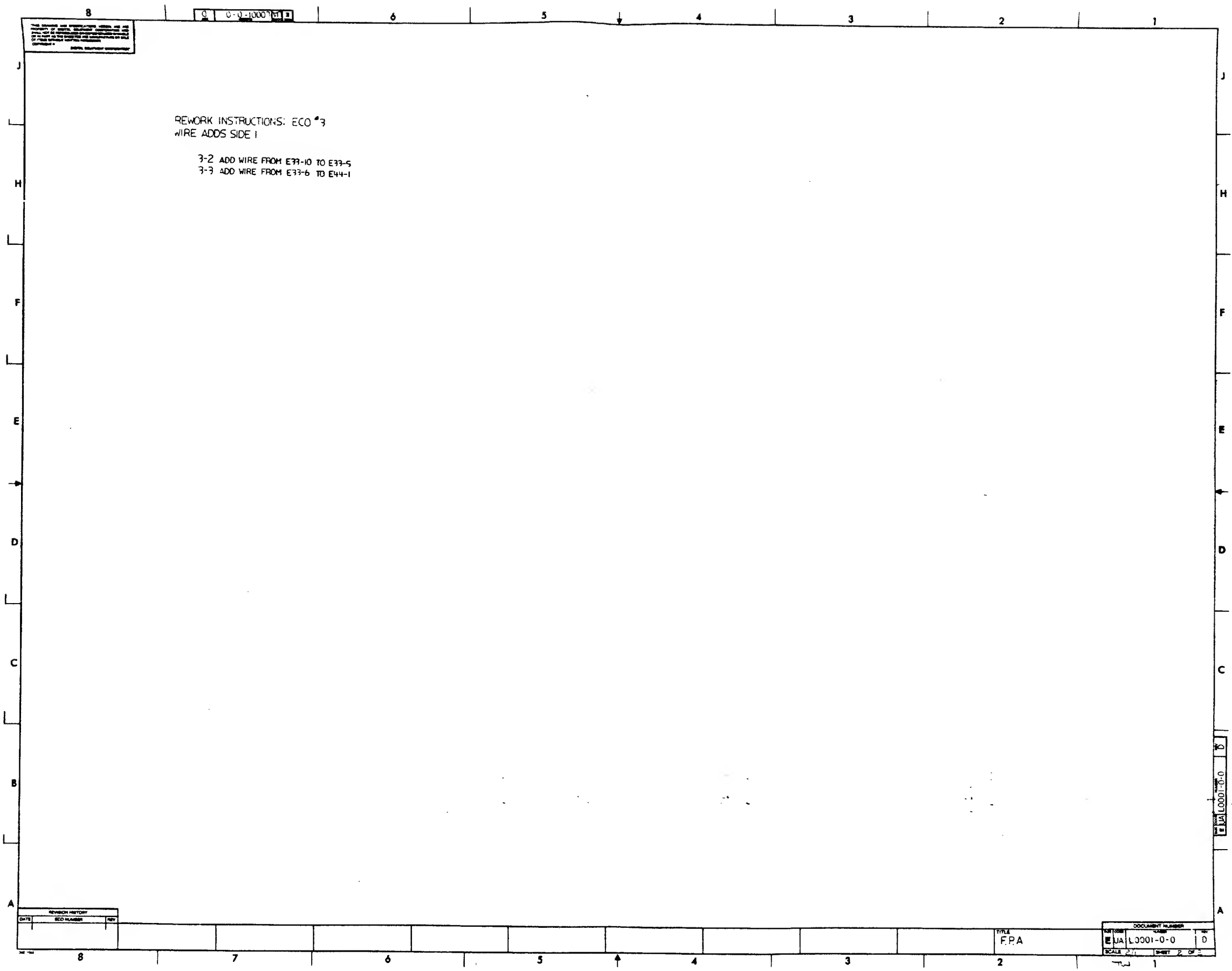
QUANTITY & VARIATION		DESCRIPTION		DISPATCH NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFY RED DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFY RED DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFY RED DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFY RED DIMENSIONS ARE IN INCHES	
DRAWN BY: [Signature]		CHECKED BY: [Signature]		FIRST USED ON: 11750		DATE: 80-00-00	
TITLE: FP750 ASSEMBLY		REV: A		PART NO: K-PL- FP750-0-0		REV: A	
MATERIAL: [Blank]		SCALE: [Blank]		SIZE: [Blank]		SHEET: 1 OF 1	
FINISH: [Blank]		TOLERANCE: [Blank]		TOLERANCE: [Blank]		TOLERANCE: [Blank]	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	E-UA-L0001-0-0	L0001-00	FLOATING POINT ACCELERATOR	1
3	3	E-UA-11750-0-0	11750-AA	KA750,MS750-AA,TU58-AA,DZ11-B,DD	REF
		A-SP-3700658-0-0	3700658-01	PKG. PROCESSOR FP750	REF

REVISION HISTORY		BASIC PART NO: FP750		DRN: P. TOUSIGNANT		DATE: 07-DEC-81		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: L. LEVIN		DATE: 07-DEC-81		TITLE PARTS LIST	
---	INITIAL	A	SECTION. VARIATION INDEX	[A] 00		FP750 ASSEMBLY			
			[B]	DES.ENG.: D. SITLER		DATE: 07-DEC-81			
			[C]	RESP.ENG.: D. SITLER		DATE: 07-DEC-81		DOCUMENT NUMBER	
			[D]	MFG.ENG.: B. NEUMANN		DATE: 07-DEC-81		SIZE CODE NUMBER REV	
			[E]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[F]	E-UA-FP750-0-0		Z3012A.PLS		6	
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0-0-10001-0-0

REVISION HISTORY		
DATE	ECO NUMBER	REV

FPA

DOCUMENT NUMBER	
UA	L3001-0-0
SCALE	2:1
SHEET	2 OF 2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	00		
						E1		
1	1		5013880-00		L0001 MULTI LAYER BOARD	1		
2	2		1012784-00		.047 MFD 50V +80-20% CER	70		C10-C14,C16-C75,C79-C83
3	3		1114384-00		LED 105MW 35MA GREEN	1		D1
4	4		1302379-00		75.0 .25 W 5.0 % CF	4		R30-R33
5	5		1300295-00		330.0 .25 W 5.0 % CF	1		R21
6	6		1300316-00		470.0 .25 W 5.0 % CF	4		R1-R4
7	7		1300365-00		1.0 K .25 W 5.0 % CF	6		R5-R10
8	8		1300447-00		4.70 K .25 W 5.0 % CF	2		R14,R15
9	9		1301401-00		750.0 .25 W 5.0 % CF	1		R20
10	10		1301775-00		B20.0 .25 W 5.0 % CF	1		R11
11	11		1503121-00		2N 2369 NPN 350MW SI N	1		Q1
12	12		1912728-00		74S251 MUX 1 OF 8 TRI-STA	1		E40
13	13		1910532-00		74S00 NAND GATE-QUAD 2IN	8		E12,E14,E50,E58,E59,E63,E64,E46
14	14		1910533-00		74S03 NAND GATE-QUAD 2IN,0	1		E30
15	15		1910534-00		74S04 INVERTER GATE-HEX 1I	3		E33,E53,E67
16	16		1910539-00		74S20 NAND GATE-DUAL 4INPU	1		E49
17	17		1910542-00		74S64 A-0-I GATE 4-2-3-2	2		E28,E29
18	18		1910544-00		74S74 FF-D DUAL,EDGE TRIGG	1		E60
19	19		1910545-00		74S112 FF-JK DUAL,EDGE TRIG	1		E51
20	20		1910547-00		74S153 MUX 1 OF 4 (DUAL)	3		E42,E69,E142
21	21		1910548-00		74S157 MUX 1 OF 2 (QUAD)	9		E10,E31,E66,E68,E136,E135,E137,
							CONT	E138,E140
22	22		1910550-00		74S174 FF-D HEX	1		E5
23	23		1910552-00		74S194 SHIFT REG.,4BIT RIGH	2		E44,E45
24	24		1910957-00		74S175 FF-D QUAD COMMON CLO	1		E27
25	25		1911675-00		74S138 DECODER/DEMUX 3-B LI	1		E7
26	26		1911712-00		74S51 AND-OR GATE-INVERT D	1		E43
27	27		1911983-00		74S133 NAND GATE-POSITIVE 1	1		E139
28	28		1912097-00	SN	74S182 LOOK AHD CARRY GEN	5		EB1,E103,E111,E112,E153
29	29		1912389-00		74S08 AND GATE-QUAD 2IN,PO	2		E54,E65

REVISION HISTORY			BASIC PART NO: 5013B80			DRN: J.CASEY			DATE: 03-AUG-B1			D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: F.GAROFALO			DATE: 03-AUG-B1			TITLE PARTS LIST			
---	INITIAL	A	SECTION VARIATION INDEX			DES.ENG: D.SITLER <th colspan="3">DATE: 03-AUG-B1</th> <td colspan="3">DOCUMENT NUMBER</td>			DATE: 03-AUG-B1			DOCUMENT NUMBER			
DS	L0001-TW001	B	[A] 00			RESP.ENG.: D.SITLER <th colspan="3">DATE: 03-AUG-81</th> <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td>			DATE: 03-AUG-81			SIZE	CODE	NUMBER	REV
DS	L0001-TW003	C	[B]			MFG.ENG.: C.PATTERSON <th colspan="3">DATE: 03-AUG-81</th> <td>K</td> <td>PL</td> <td>L0001-0-DBP</td> <td>D</td>			DATE: 03-AUG-81			K	PL	L0001-0-DBP	D
PG	L0001-TW004	D	[C]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:			
			[D]			E-UA-L0001-0-0 <th colspan="3">B-DD-L0001-0-0</th> <td colspan="3">Z3016D.PLS</td>			B-DD-L0001-0-0			Z3016D.PLS			
			[E]												
			[F]												
			[H]												
			[J]												
			[K]												
			[L]												
			[M]												
			[N]												
RELEASE DATE: 26-MAR-84															
EDIT # 16															

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AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A2 OF A3

LINE ITEM		TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
VARIATION REVISION LEVEL:						00		
						E1		
30	30		1912660-00		74S253 MUX 1 OF 4 (DUAL)	1		E35
31	31		1912666-00		BUFFER GATE-QUAD 2IN	3		E13,E39,E57
32	32		1912746-00	DEC	74S37 NAND GATE-QUAD 2IN	1		E52
33	33		1913340-00		74S32 OR GATE-QUAD 2IN	1		E36
34	34		1913462-00		74S240 OCTAL BUFFER,INVERTI	1		E34
35	35		1913671-00		74S374 FF-D,OCTAL,TR1 STATE	9		E11,E70,E78,E86,E92,E108,E123,
36	36		1913700-00		74S381 ALU-4BIT	14	CONT	E127,E150
37	37		1914085-00		74S260 NOR GATE-DUAL,POS	3	CONT	E79,E80,E93-E95,E101,E109,E110,
38	38		1914686-00	DC	612B 8IPOLAR,LS,400-GATE	2		E124-E126,E132,E151,E152
39	39		1914710-00	DC	636 BIPOLAR,LS,400-GATE	8		E9,E55,E141
40	40		1914711-00	DC	637 BIPOLAR,LS,400-GATE	4	CONT	E90,E120
41	41		1914712-00	DC	638 BIPOLAR,LS,400-GATE	8		E73,E82,E104,E113,E114,E119,
42	42		1914713-00	DC	639 BIPOLAR,LS,400-GATE	2	CONT	E128,E129
43	43		1914715-00	DC	641 BIPOLAR,LS,400-GATE	2		E83,E89,E105,E98
44	44		1914716-00	DC	642 BIPOLAR,LS,400-GATE	1		E74,E75,E84,E99,E106,E115,E121,
45	45		1914717-00	DC	643 BIPOLAR,LS,400-GATE	1	CONT	E130
46	46		1915193-00		LS244 DRIVER,LINE,OCTAL,T	8		E88,E97
47	47		1915698-00		MULTIPLIER 8X8	7	CONT	E1,E2
48	48		23328A1-00	A1-07		1		E3
49	49		23621A2-00	A2-05		1		E4
50	50		23626A2-00	A2-05		1		E6
51	51		23074R1-00	B1-01		1		E41
52	52		23056F2-00	F2-01		1		E32
53	53		23057F2-00	F2-01		1		E61
54	54		1017472-00	10 MFD	35V +75-10% AL EL	6		E62
55	55		23043D2-00	D2-01		1		C1-C6
56	56		23044D2-00	D2-01		1		E15
57	57		23045D2-00	D2-01		1		E16
58	58		23046D2-00	D2-01		1		E17
59	59		23047D2-00	D2-01		1		E19
60	60		23048D2-00	D2-01		1		E20
61	61		23049D2-00	D2-01		1		E22
62	62		23050D2-00	D2-01		1		E23
63	63		23051D2-00	D2-01		1		E21
64	64		23052D2-00	D2-01		1		E18
65	65		23053D2-00	D2-01		1		E24
66	66		1910650-00		74161 COUNTER,SYNCHR. UP	1		E56
67	67		1300444-00	3.90 K	.25 W 5.0 % CF	2		E38
68	68		1215006-02	SKT,IC	16PIN DIP TIN	5		R12,R16
69	69		1215006-03	SKT,IC	18PIN DIP TIN	2		XE6,XE8,XE37,XE41,XE143
70	70		1215006-04	SKT,IC	20PIN DIP TIN	1		XE61,XE62
71	71		1215006-05	SKT,IC	22PIN DIP TIN	11		XE32
72	72		1215924-00	SKT,IC	48PIN DIP GOLD	28		XE15-XE24,XE56
								XE1-XE4,XE73-XE75,XE82-XE84,

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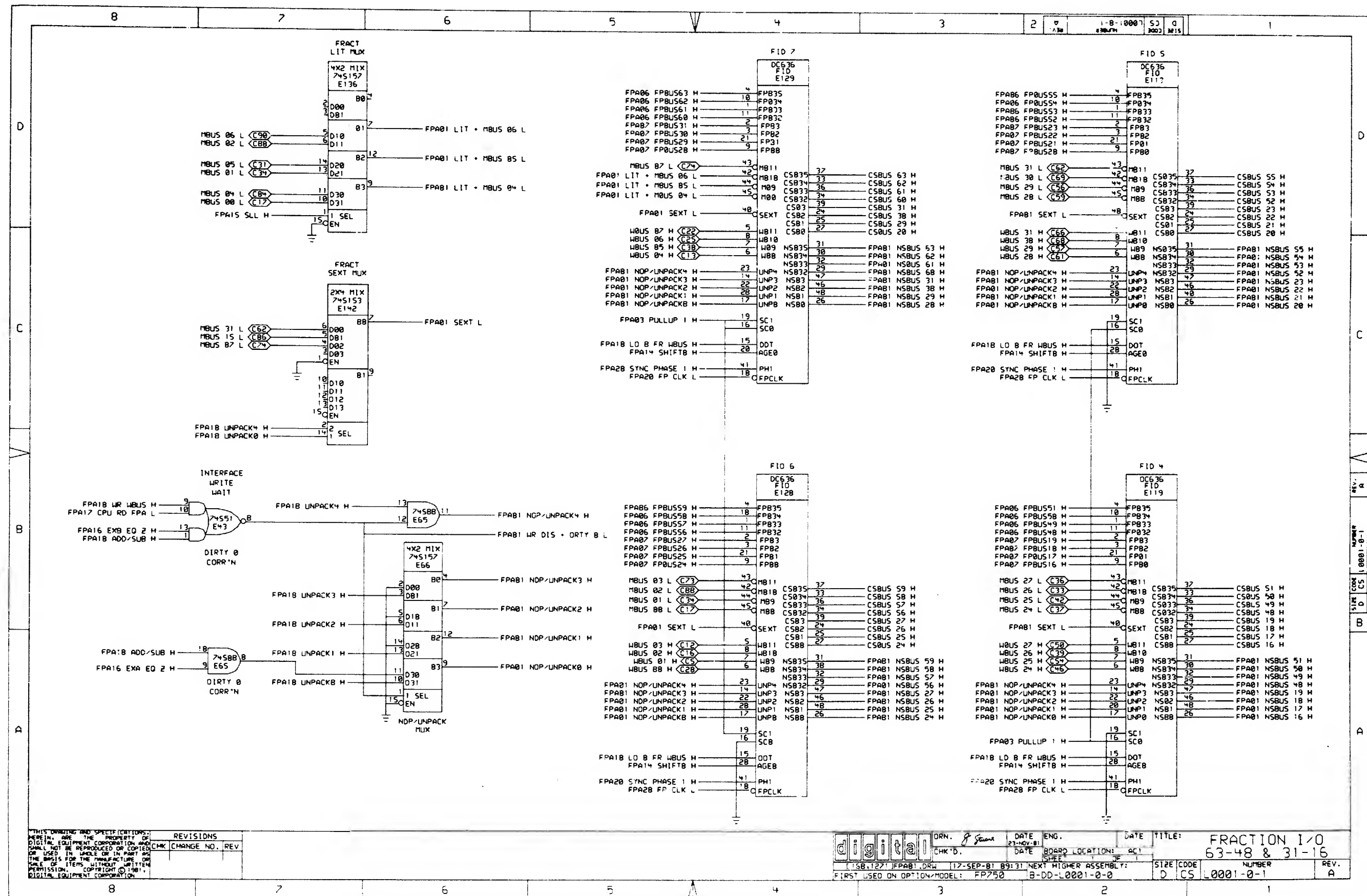
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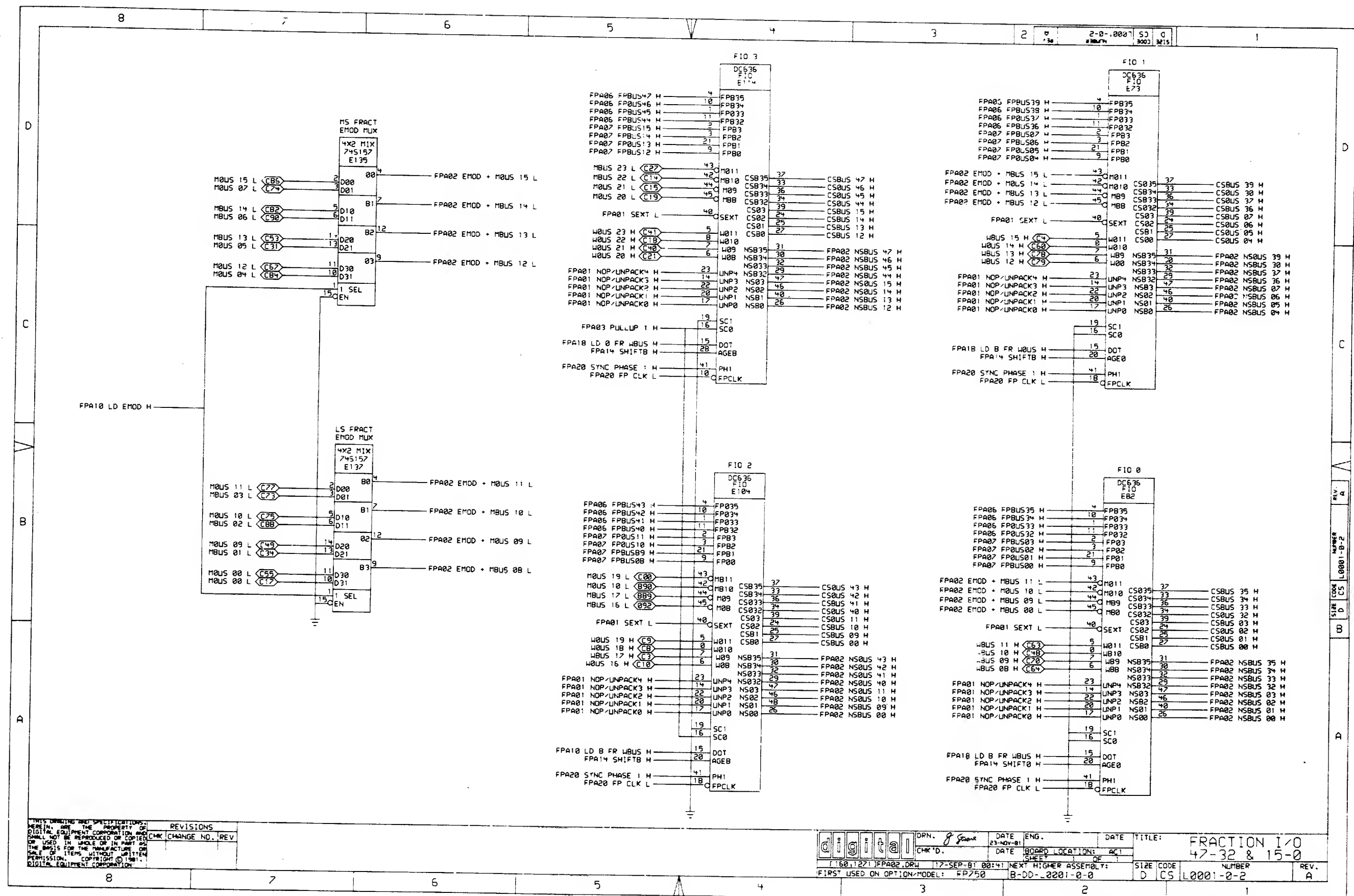
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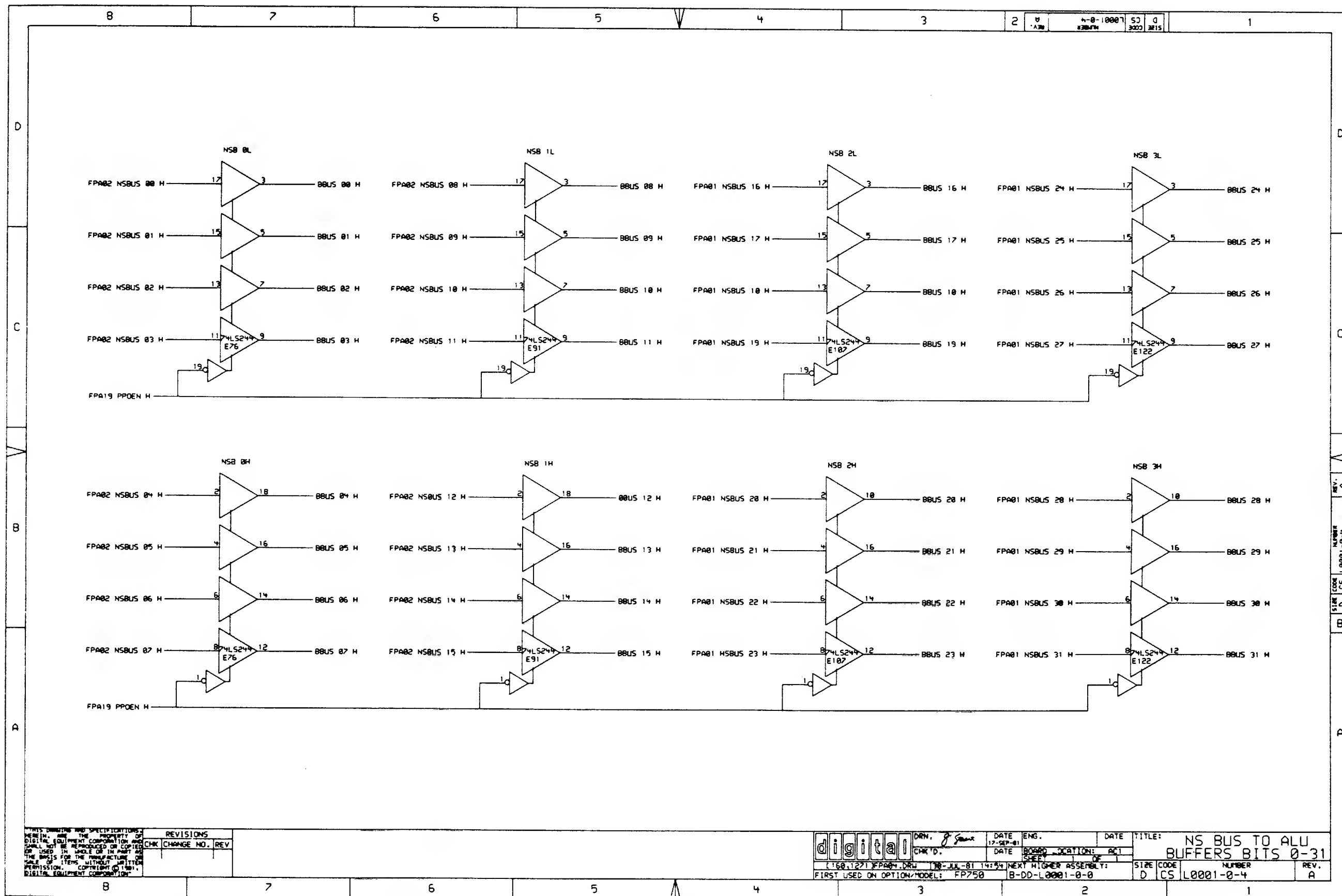
SHEET A3 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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							CONT XE88-XE90,XE97-XE99,XE104-XE106,
							CONT XE113-XE115,XE119-XE121,
							CONT XE128-XE130
73	73		1215935-00		GASKET,THERMAL	28	
74	74		1215936-00		HEAT SINK, SILICONE	28	
75	75		1216988-02		2.200X.585	1	
76	76		9000024-01		HANDLE,MODULE,HEX TWO EJECTORS	12	
77	77		23968A9-00		EYELET,ROLLED 0.1210DX0.192	1	
78	78		1211004-05		A9-01	2	E8
79	79		1300271-00		PCB,HEADER 50SKT(2X25).100CC	1	J1,J2
80	80		23971A9-00		220.0 .25 W 5.0 % CF	1	R13
					A9-04	1	E143

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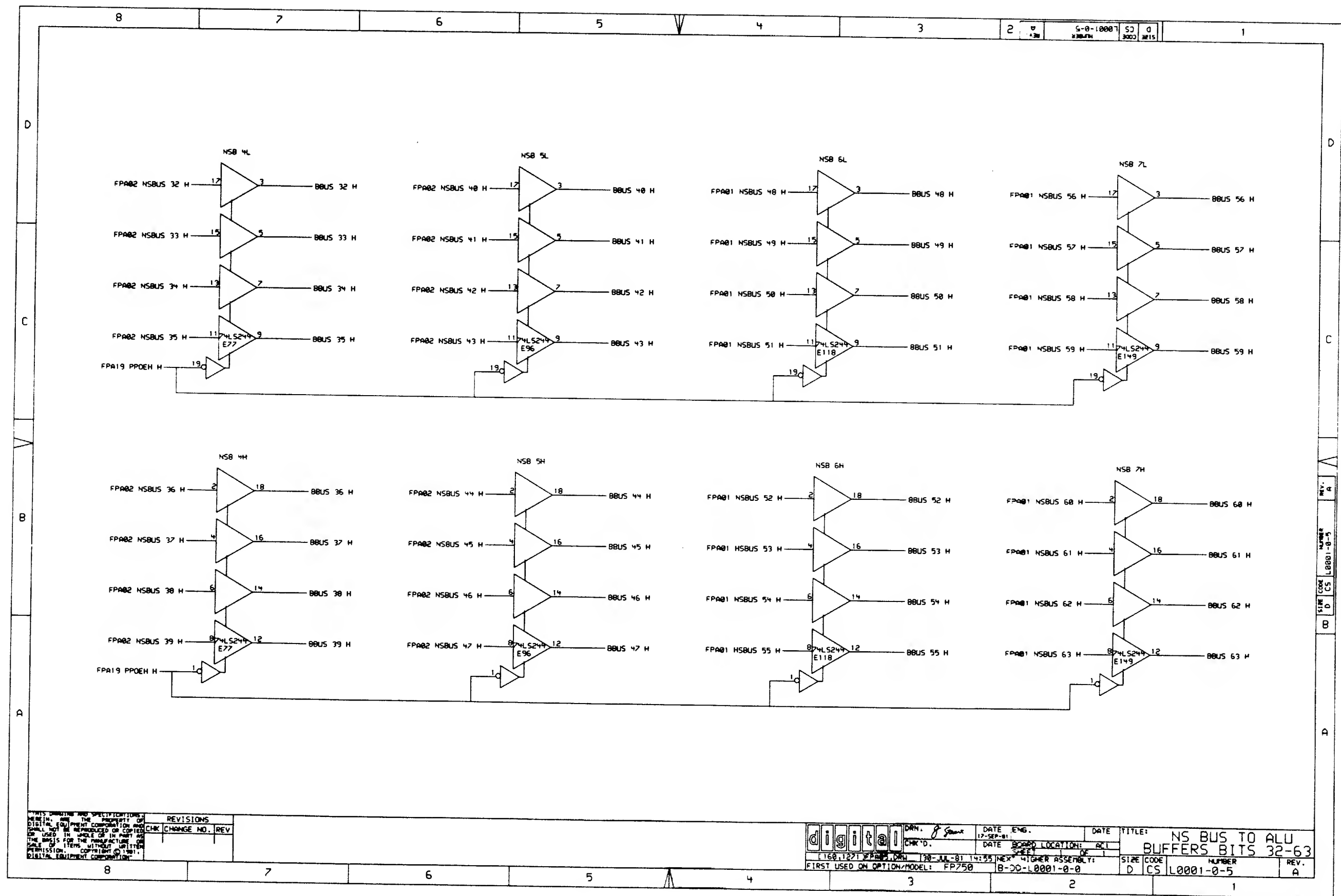




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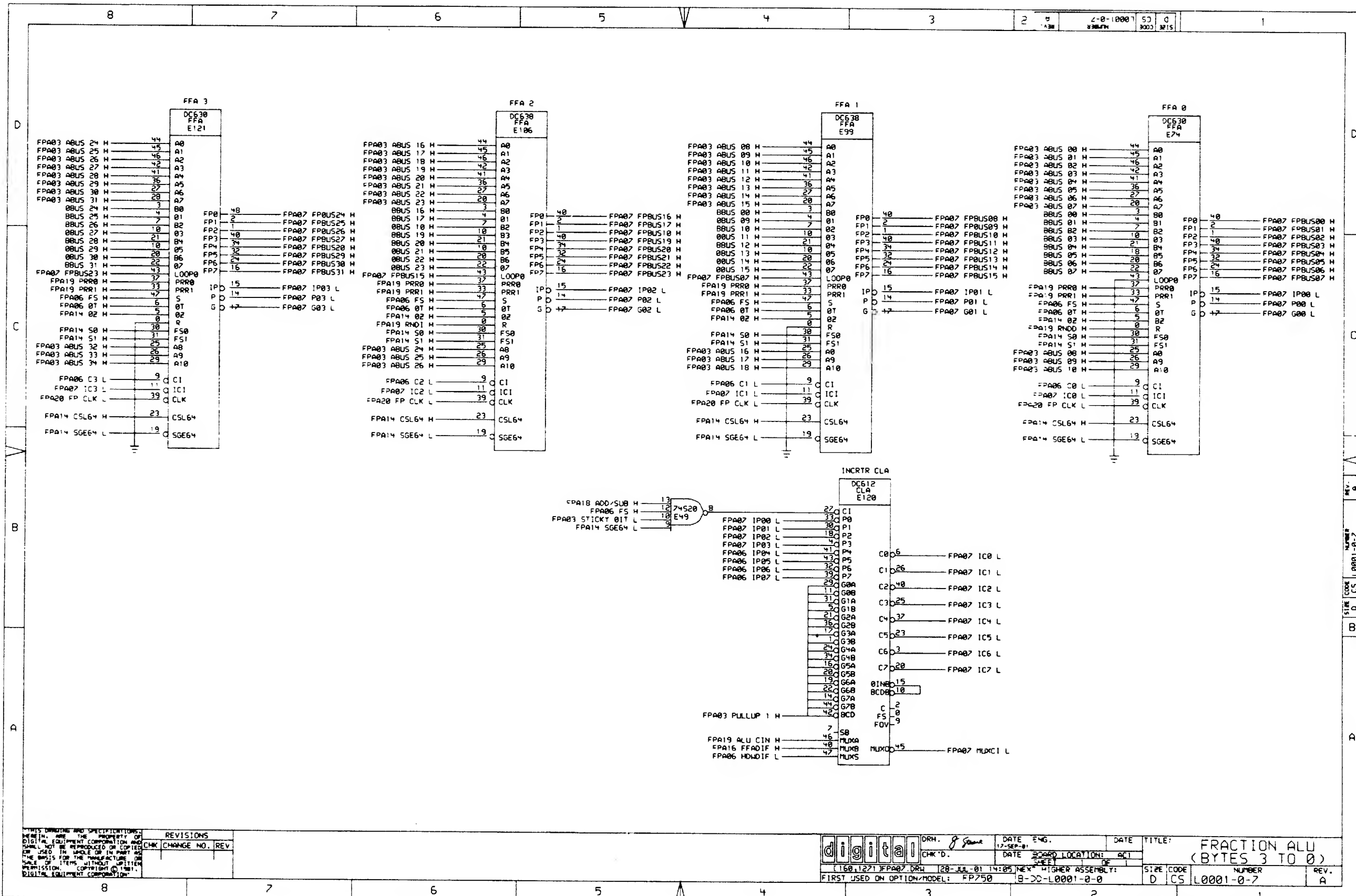
REVISIONS		
CHK	CHANGE NO.	REV

digital (150,127) FPA04.DWL FIRST USED ON OPTION/MODEL: FP750	DATE: 17-SEP-81 DATE: 18-JUL-81 14:54 CHECK'D: [Signature] SHEET: 1 OF 1	ENG. LOCATION: ACT DATE: [Blank] NEXT HIGHER ASSEMBLY: B-DD-L0001-0-0	TITLE: NS BUS TO ALU BUFFERS BITS 0-31 SIZE: D CODE: CS NUMBER: L0001-0-4 REV: A
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REVISIONS		
CHK	CHANGE NO.	REV

digit@	DATE	ENG.	DATE	TITLE
	17-SEP-81			NS BUS TO ALU
160,1271	130-JUL-81	14:55	1	BUFFERS BITS 32-63
FIRST USED ON OPTION/MODEL:	FP750	B-30-L0001-0-0	D CS	L0001-0-5



REVISIONS		DATE		TITLE	
CHK	CHANGE NO.	REV	DATE	LOC	REV
150-1271 FFA07 DPL		28-JUL-81 14:05		NEW YORK	
FIRST USED ON OPTION/MODEL: FP750		18-00-10001-0-0		D CS L0001-0-7	

digital

DRH. J. J. J.

DATE ENG. 17-SEP-81

DATE 17-SEP-81

LOC ACT

150-1271 FFA07 DPL

28-JUL-81 14:05

NEW YORK

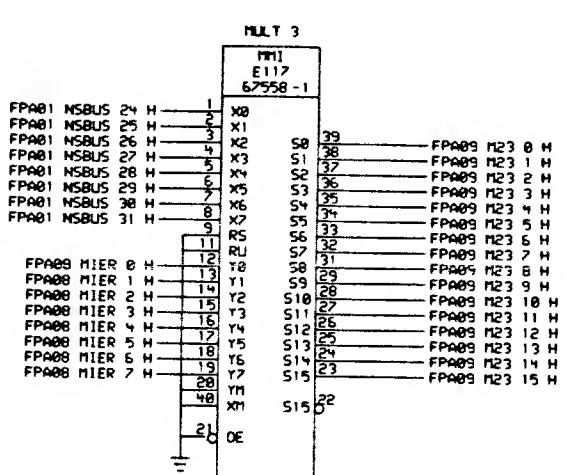
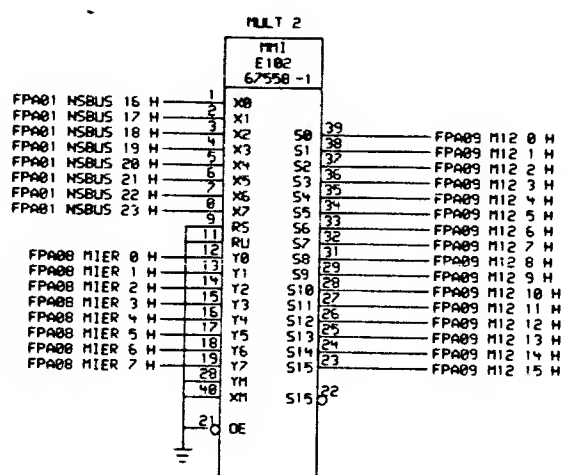
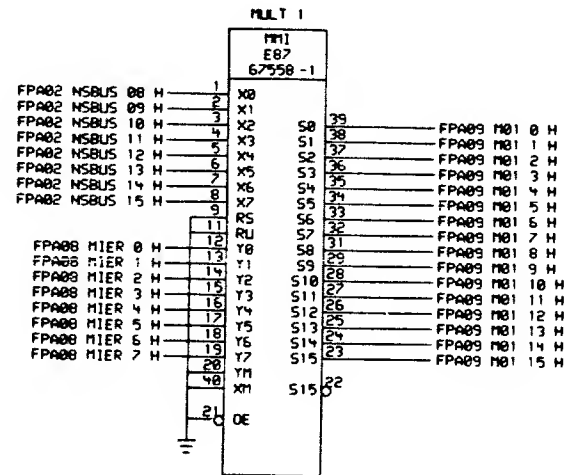
18-00-10001-0-0

D CS L0001-0-7

REV. A

FRACTION ALU (BYTES 3 TO 0)

THERE IS NO
MULT 0

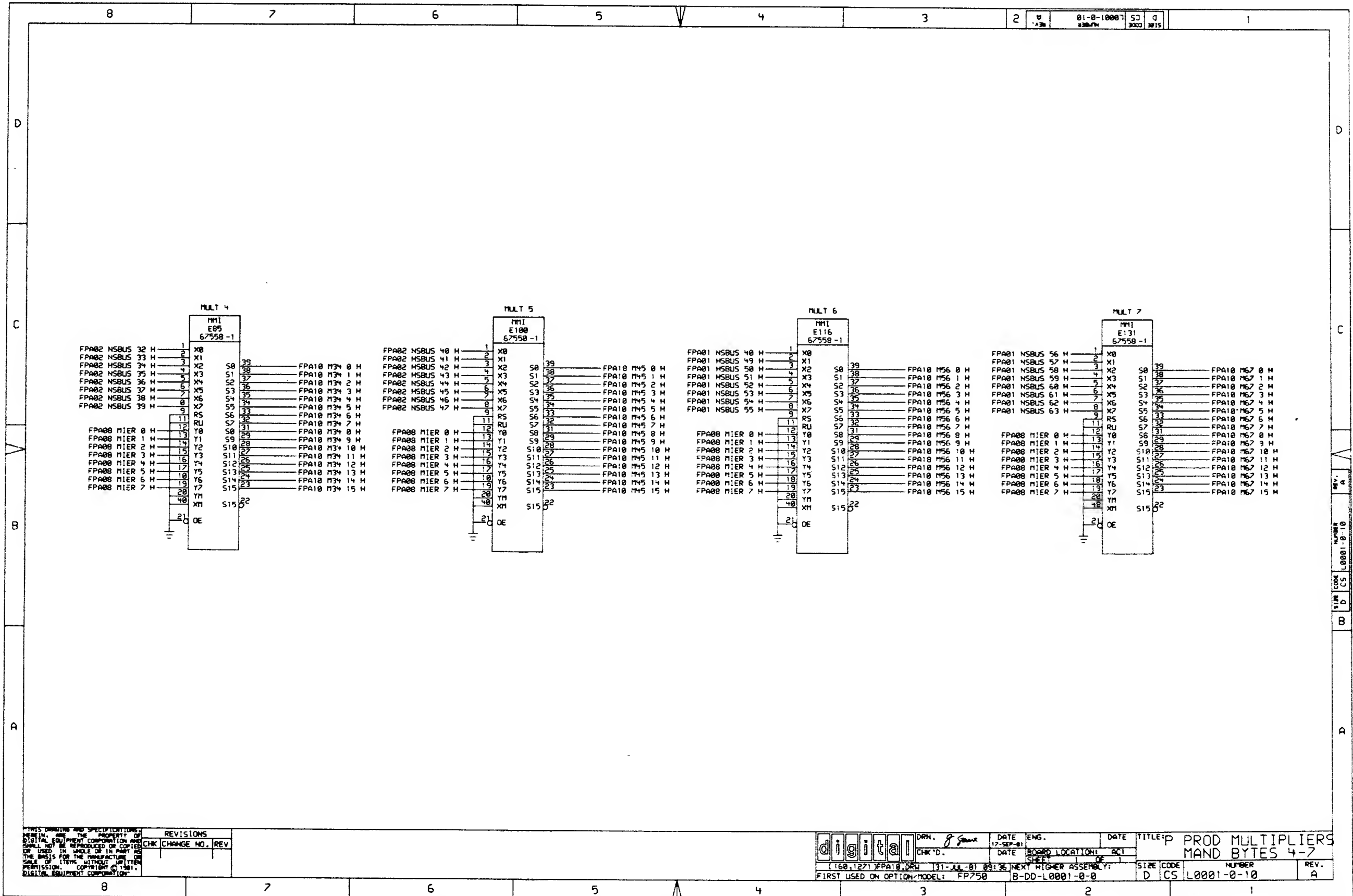


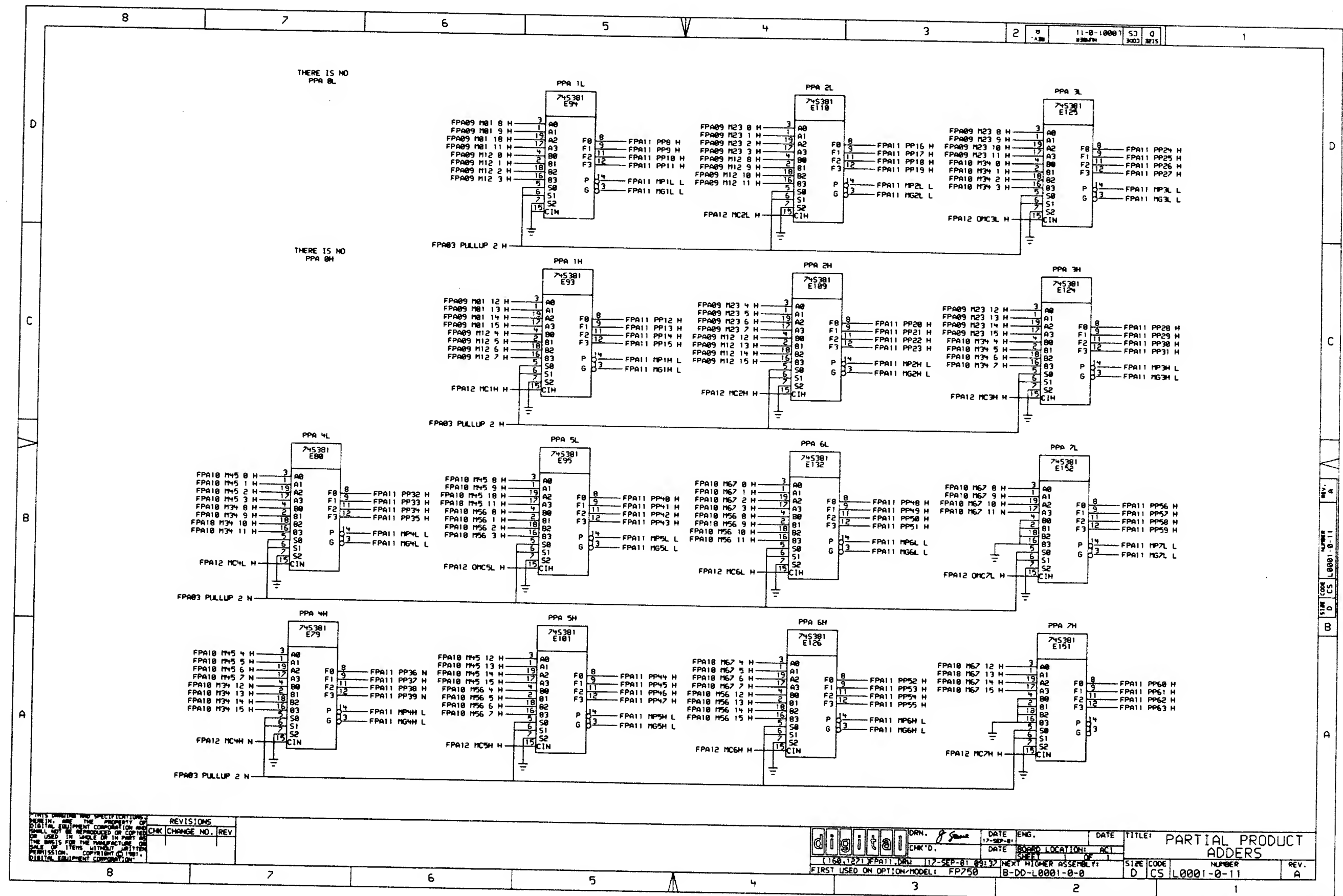
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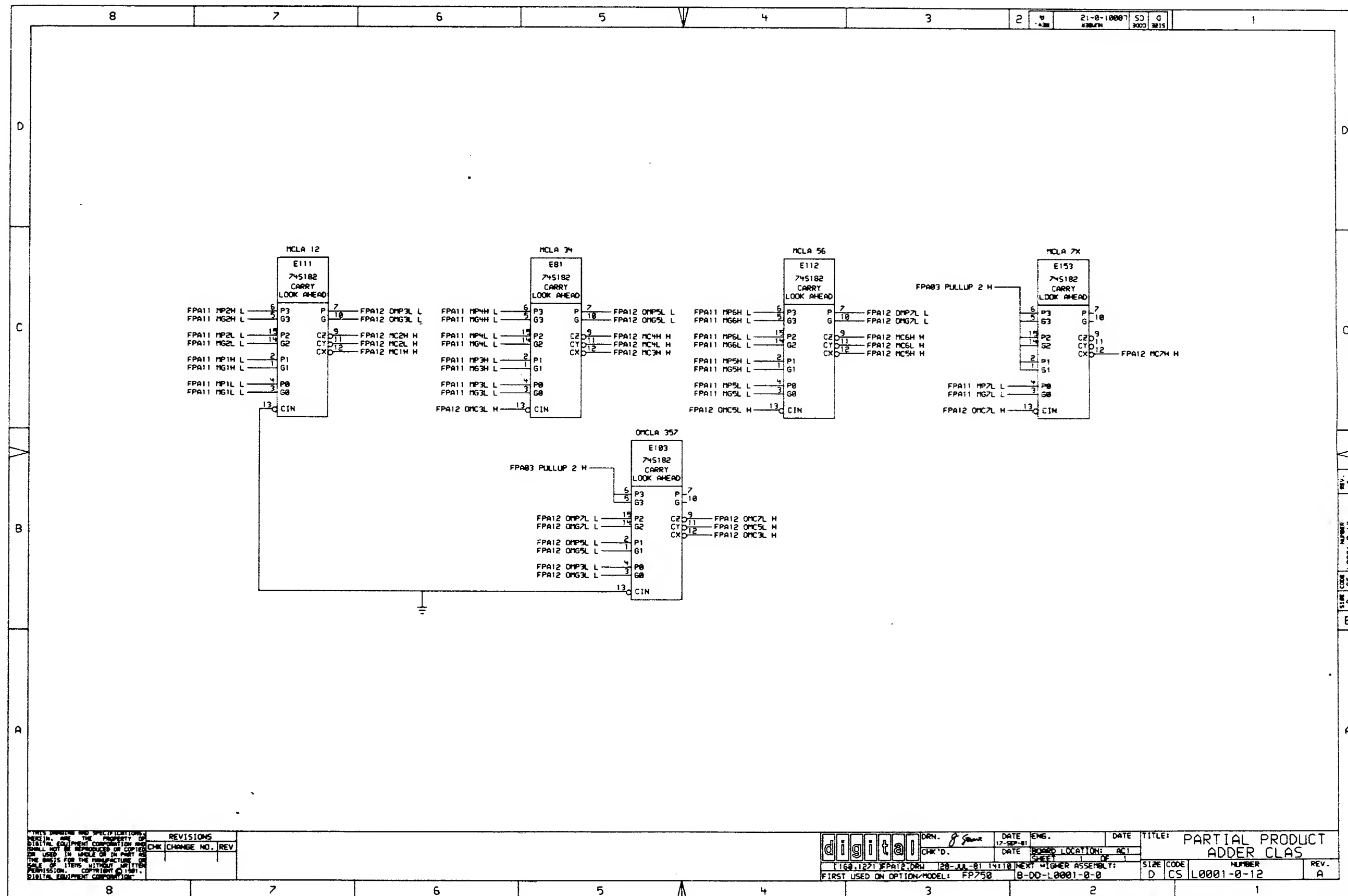
REVISIONS		
CHK	CHANGE NO.	REV



DRW. 8 Jan	DATE 17-SEP-81	ENG.	DATE	TITLE: PROD MULTIPLIERS MAND BYTES 1-3
CHK'D.	DATE	BOARD LOCATION: A1	DE	
160,1271 FPA09.DPL	17-SEP-81 09:34	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL: FP750	B-DD-L0001-0-0		D CS	L0001-0-9
			REV.	A



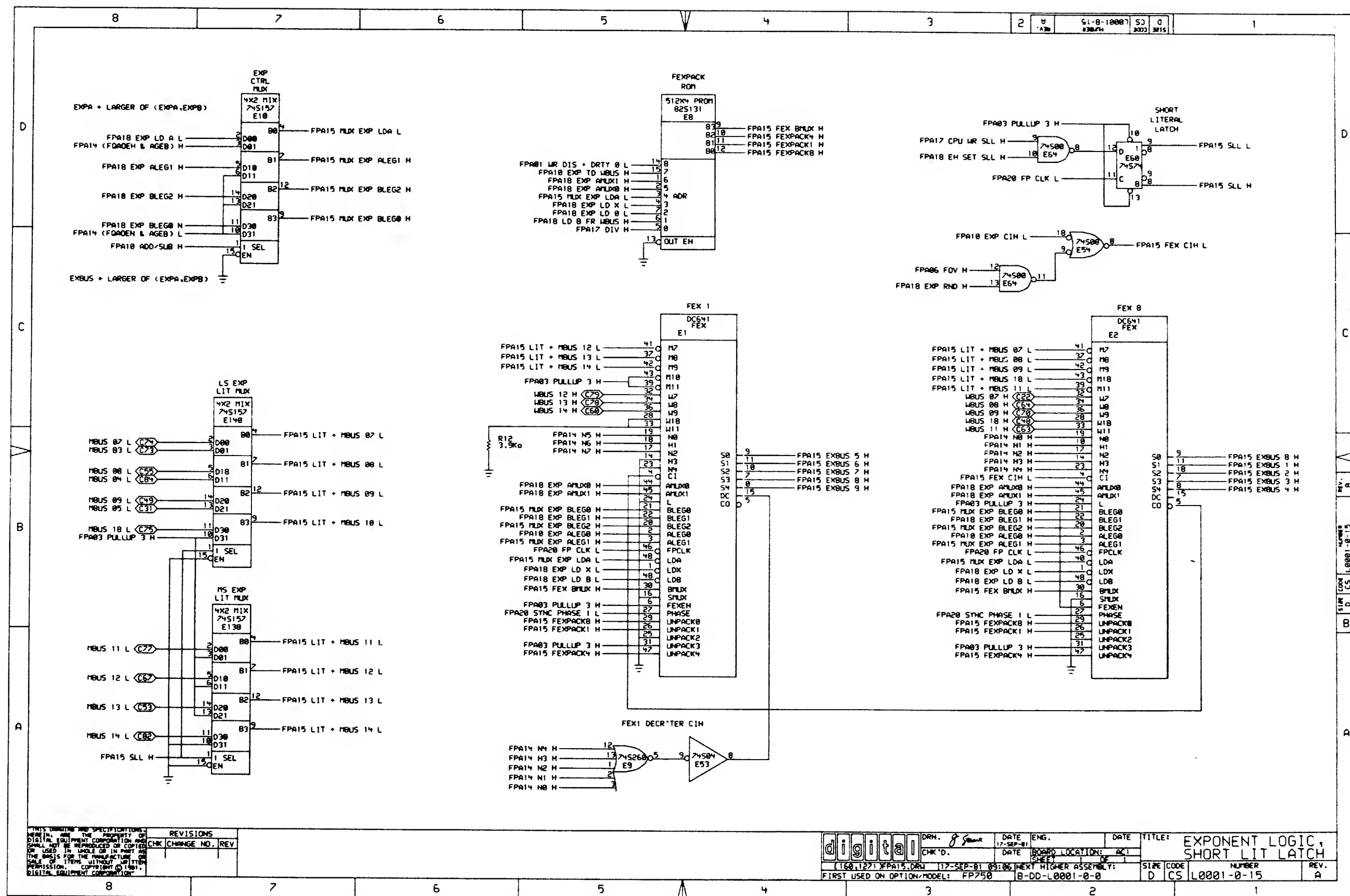


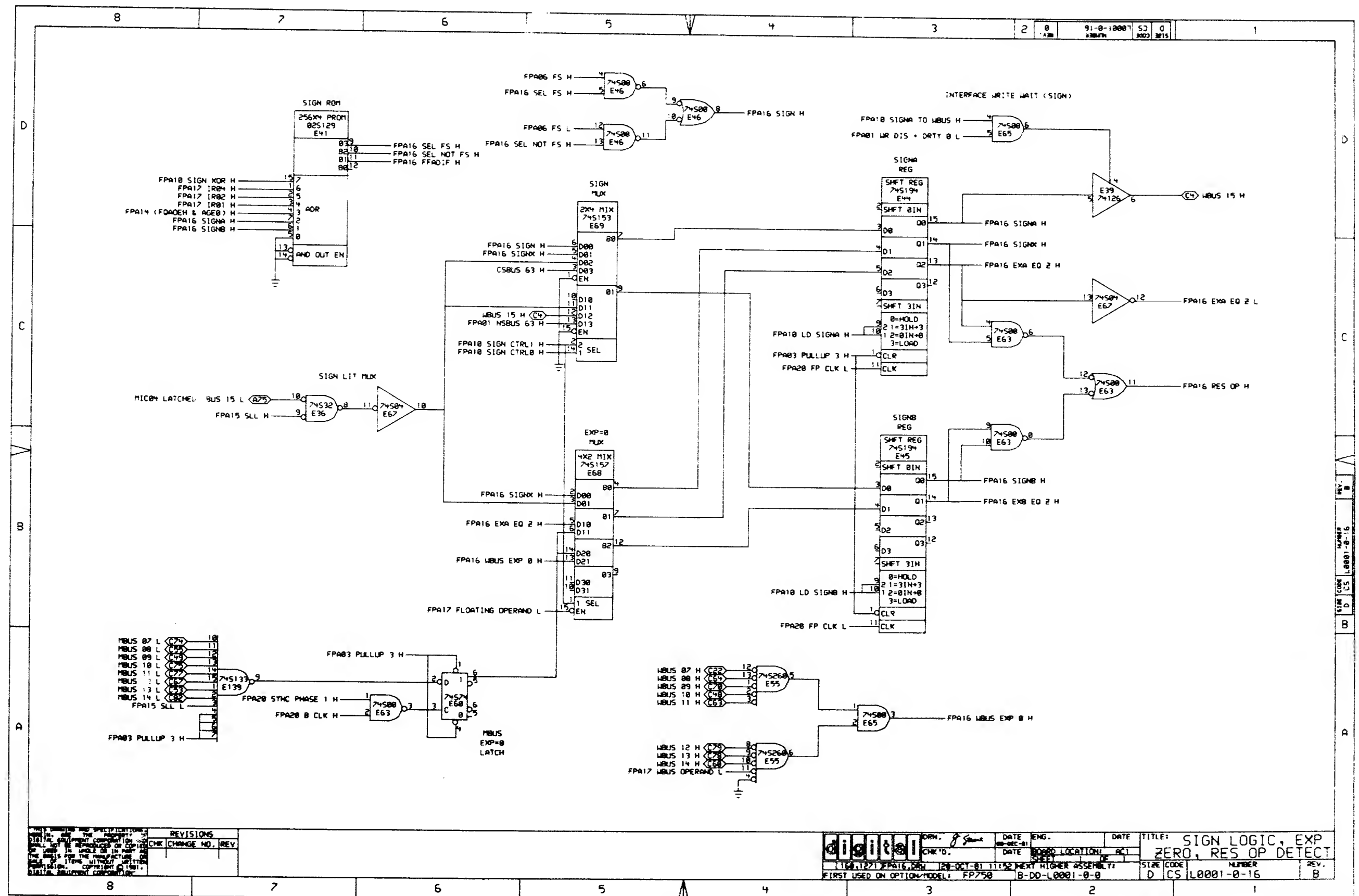


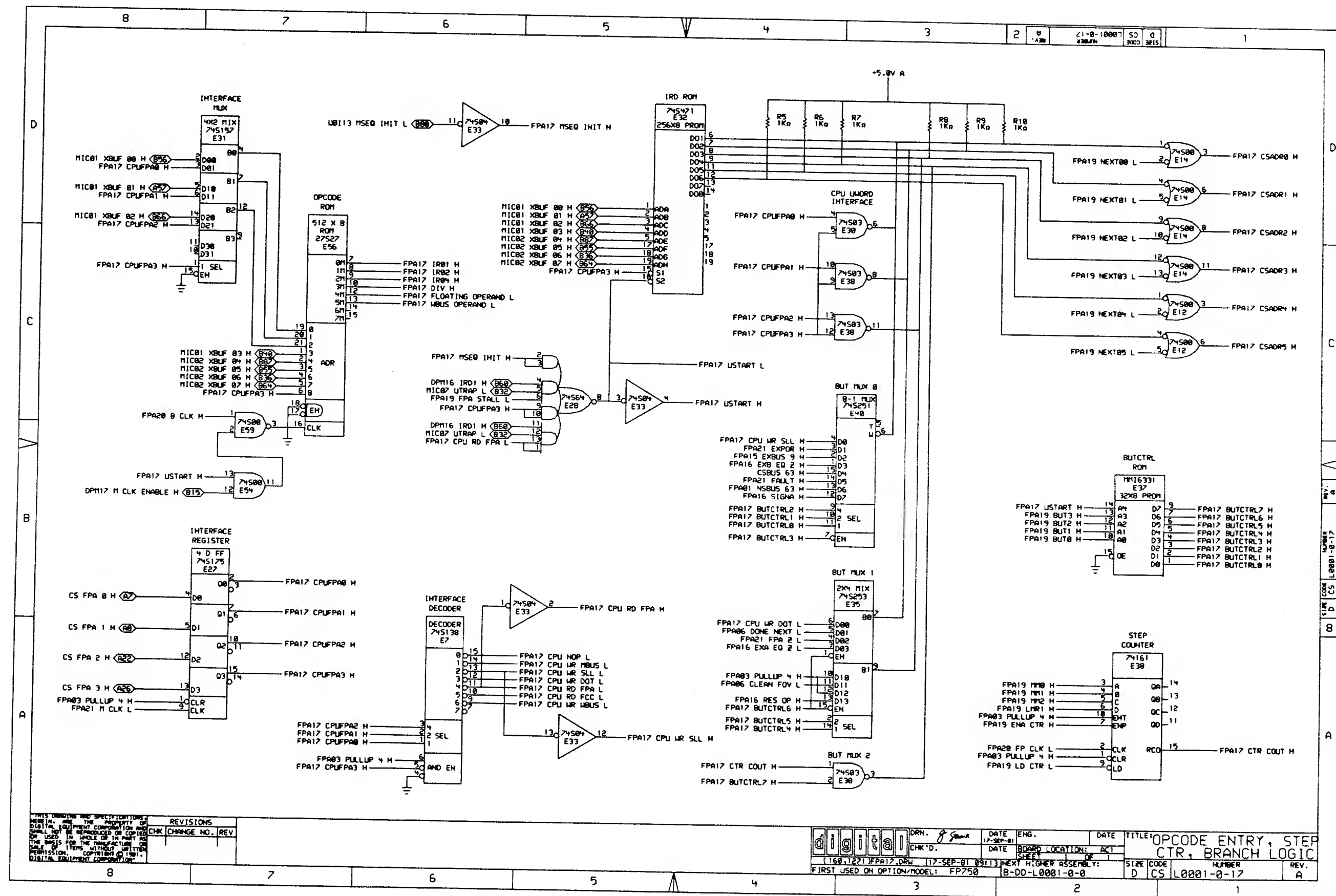
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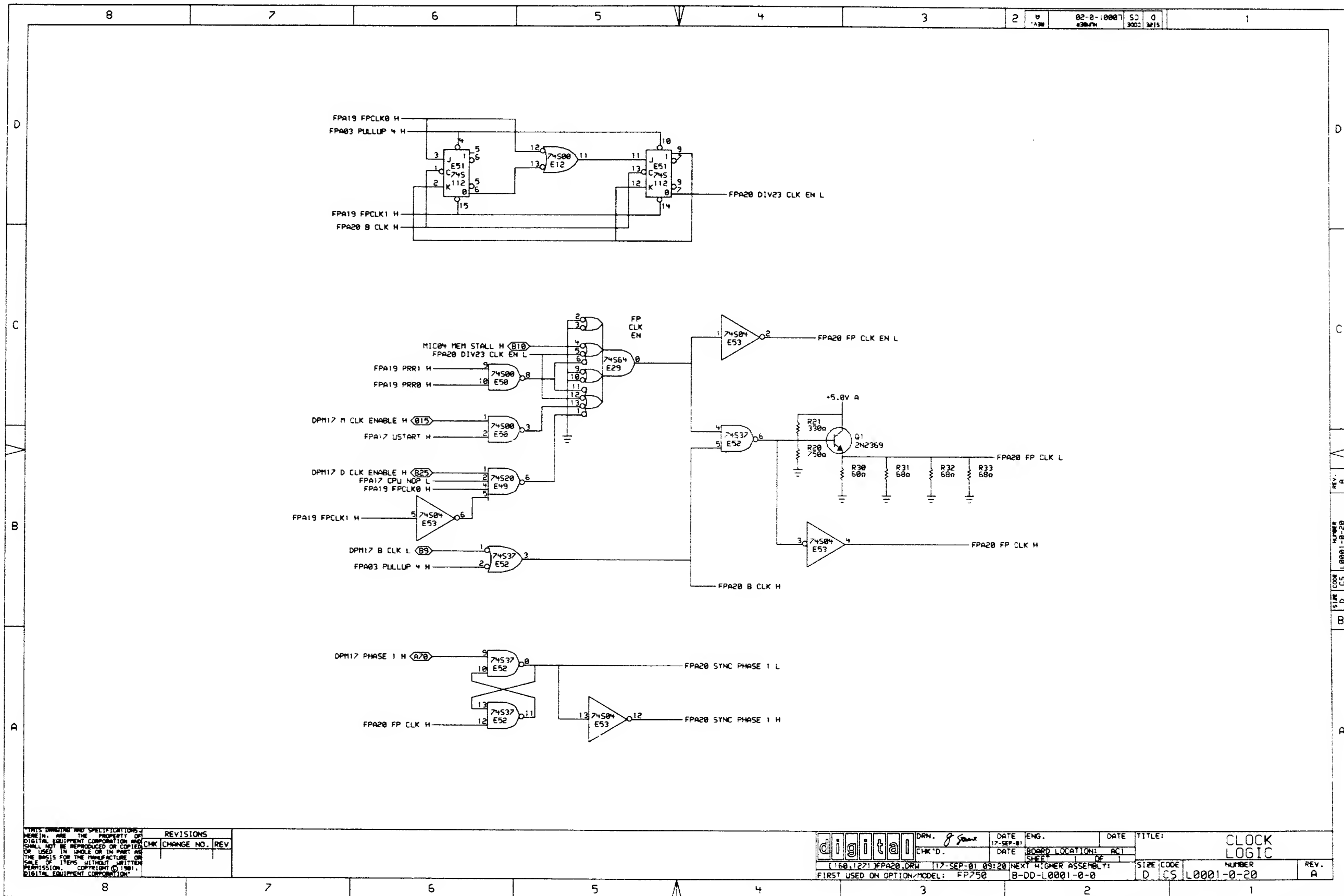
REVISIONS	
CHK	CHANGE NO. REV

digital	DRN. 8	DATE 17-SEP-81	ENG.	DATE	TITLE: PARTIAL PRODUCT ADDER CLAS
CHK'D.	DATE 128-JUL-81 14:10	BOARD LOCATION: AC1	SHEET 1 OF 1		
FIRST USED ON OPTION/MODEL: FP750	B-DD-L0001-0-8	SIZE CODE D CS	NUMBER L0001-0-12	REV. A	









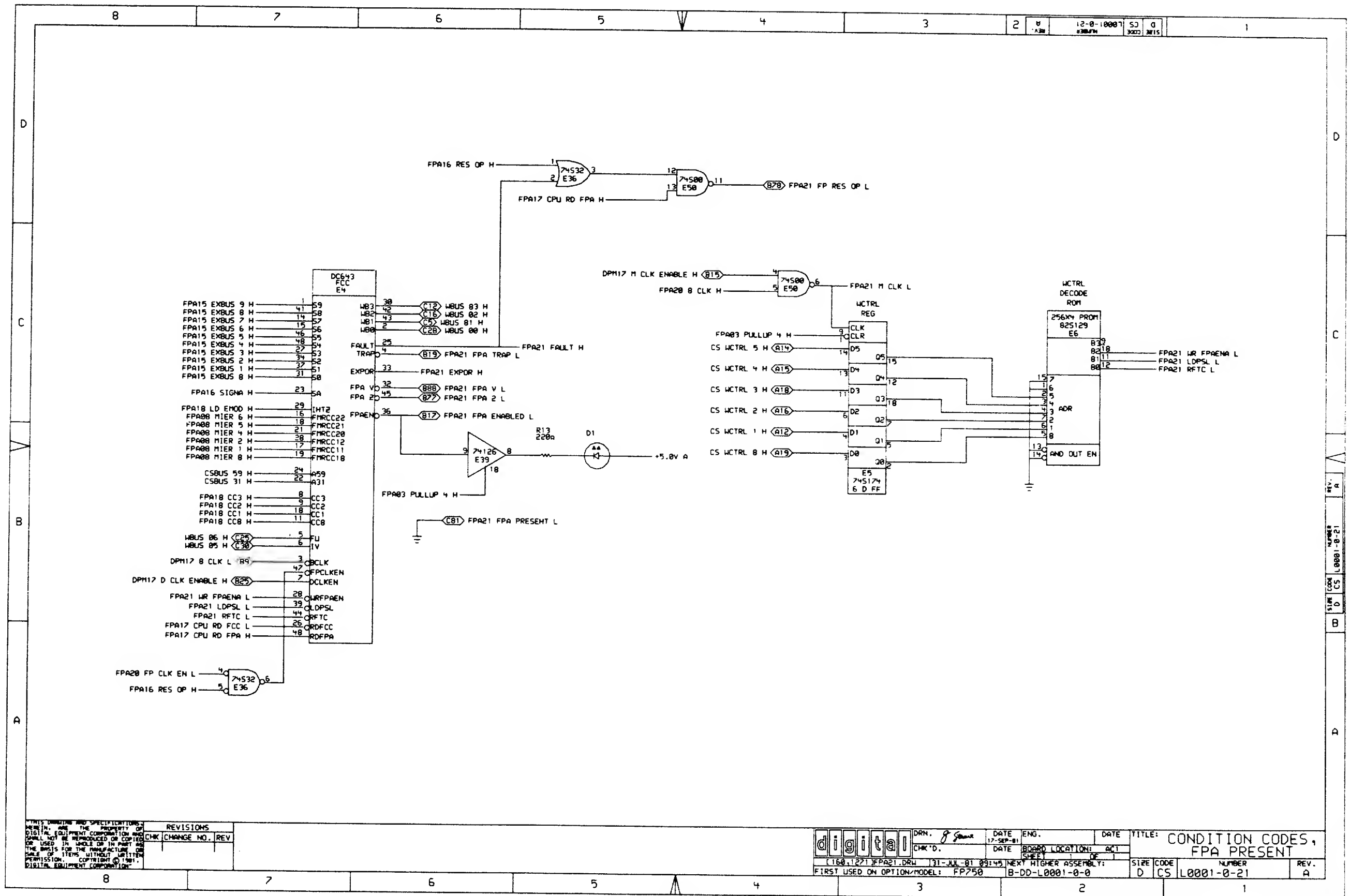
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REVISIONS	
CHK	CHANGE NO. REV

digital

DRW. 8 Jan	DATE 17-SEP-81	ENG.	DATE	TITLE: CLOCK LOGIC
CHK'D.	DATE	BOARD LOCATION: ACT		
FIRST USED ON OPTION/MODEL: FP750		NEXT HIGHER ASSEMBLY: B-DD-L0001-0-0		

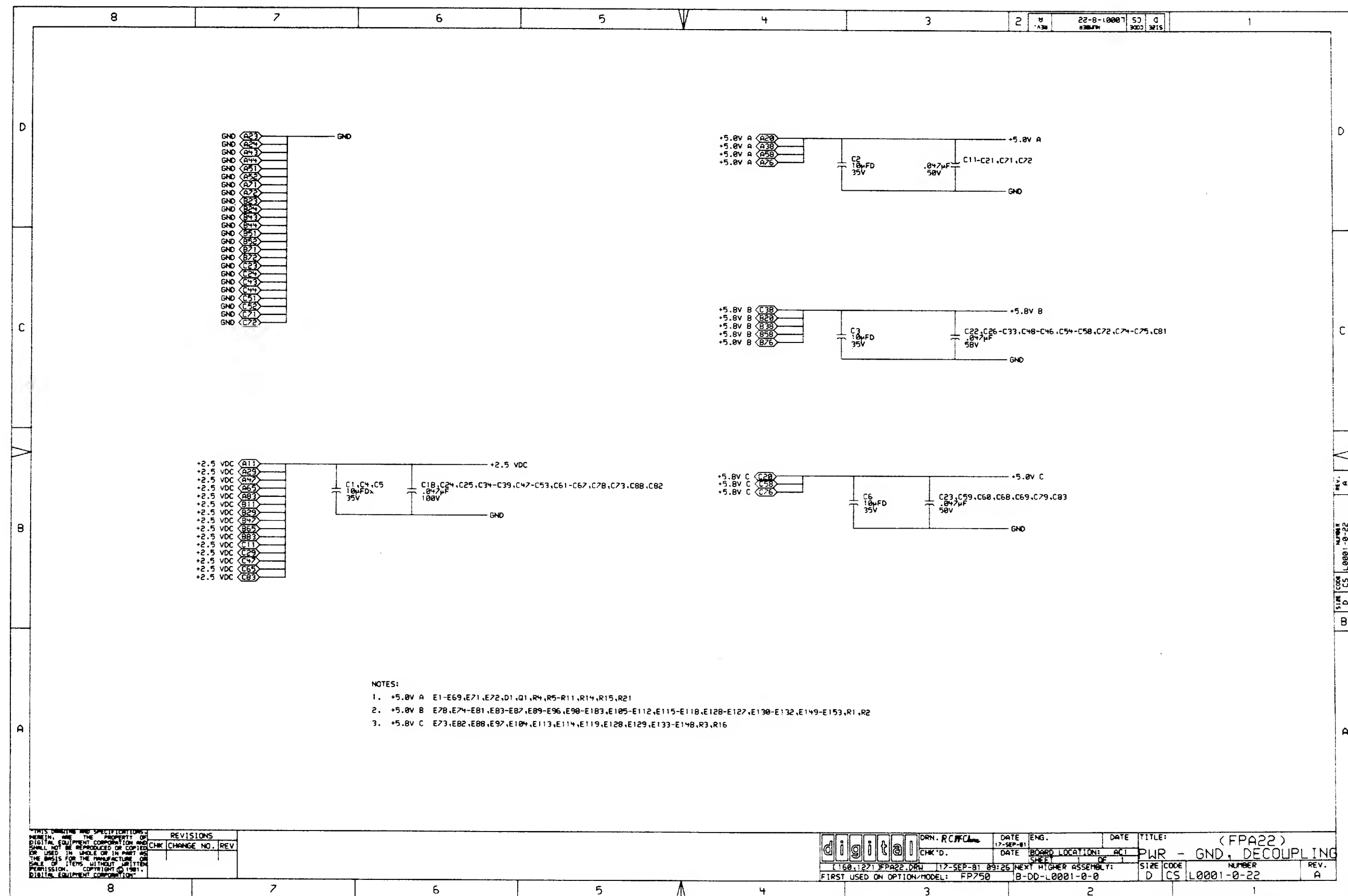
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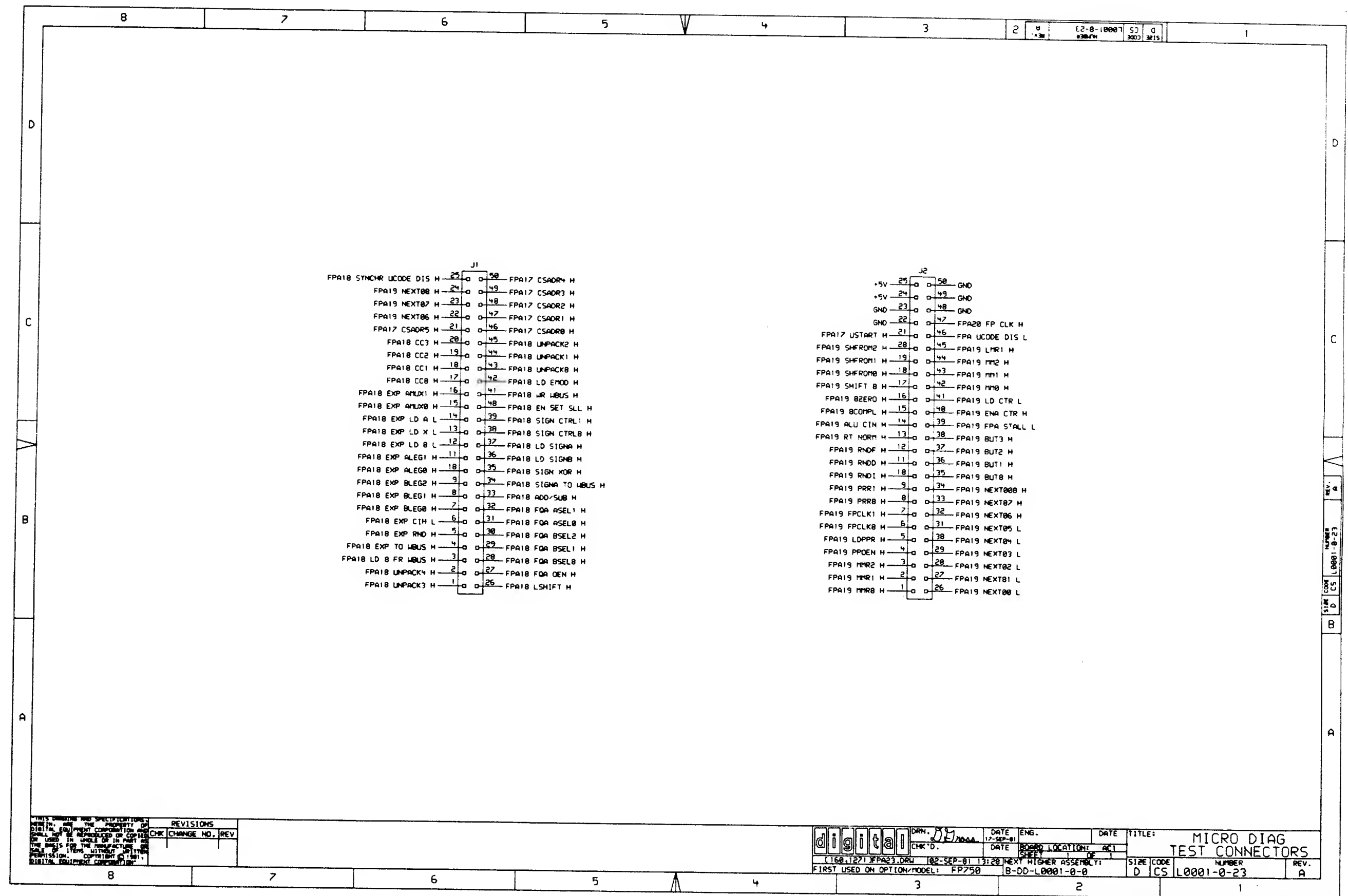


REVISIONS		
CHK	CHANGE NO.	REV.

digital	DRN. <i>J. Smith</i>	DATE 17-SEP-81	ENG.	DATE	TITLE: CONDITION CODES, FPA PRESENT		
	CHK'D.	DATE	BOARD LOCATION: ACT	SHEET 1 OF 1	SIZE CODE	NUMBER	REV.
(160,127) FPA21.DRW 131-JUL-81 09:45 NEXT HIGHER ASSEMBLY:			B-DD-L0001-0-0		D CS	L0001-0-21	A
FIRST USED ON OPTION/MODEL: FP750							

COMETCHIPS, (160,127) FPA21.DPL, SCALE 2, "D" RELEASE BOX
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<div>NOTES: 1. THIS PAGE LISTS THE SCHEMATIC PAGE NUMBER(S) WHERE A SIGNAL NAME IS REFERENCED.</div>							
<div><div><div>THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1981, DIGITAL EQUIPMENT CORPORATION.</div><div>REVISIONS CHKCHANGE NO. REV</div></div><div><div>digital</div><div>DRN. BY: <i>DE</i> CHK'D: <i>DE</i> DATE: 12-SEP-81 DATE: 01-SEP-81 13:26 SHEET: 1 OF 1 NEXT HIGHER ASSEMBLY: B-DD-L0001-0-0</div><div>ENG. LOCATION: ACT SIZE: D CODE: CS NUMBER: L0001-0-25 REV: A</div></div><div>TITLE: FORWARD REFERENCE</div></div>							
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17 H</td><td>2</td></tr><tr><td>FPA18 SYNCHR UCODE DIS H</td><td>18,19,23</td><td></td><td>FPA19 RND0 H</td><td>19,7,23</td><td></td><td>-MBUS 18 H</td><td>2</td></tr><tr><td></td><td></td><td></td><td>FPA19 RND1 H</td><td>19,6,23</td><td></td><td>-MBUS 19 H</td><td>2</td></tr><tr><td>FPA18 UNPACK8 H</td><td>18,1,23</td><td></td><td>FPA19 RT NORM H</td><td>19,6,23</td><td></td><td>-MBUS 20 H</td><td>2</td></tr><tr><td>FPA18 UNPACK1 H</td><td>18,1,23</td><td></td><td>FPA19 SHFR00 H</td><td>19,14,23</td><td></td><td>-MBUS 21 H</td><td>2</td></tr><tr><td>FPA18 UNPACK2 H</td><td>18,1,23</td><td></td><td>FPA19 SHFR01 H</td><td>19,14,23</td><td></td><td>-MBUS 22 H</td><td>2</td></tr><tr><td>FPA18 UNPACK3 H</td><td>18,1,23</td><td></td><td>FPA19 SHFR02 H</td><td>19,14,23</td><td></td><td></td><td></td></tr><tr><td>FPA18 UNPACK4 H</td><td>18,1,23</td><td></td><td>FPA19 SHIFT B H</td><td>19,14,23</td><td></td><td>-MBUS 23 H</td><td>2</td></tr><tr><td>FPA18 WR MBUS 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H</td><td>19,17,23</td><td></td><td>FPA20 SYNC PHASE 1 H</td><td>14,20,16,2,1</td><td></td><td></td><td></td></tr><tr><td>FPA19 BZERO H</td><td>19,14,23</td><td></td><td>-FPA20 SYNC PHASE 1 H</td><td>15,28</td><td></td><td>-MBUS 31 H</td><td>1</td></tr><tr><td></td><td></td><td></td><td>FPA21 EXPOR H</td><td>21,17</td><td></td><td>MICB1 XBUF 00 H</td><td>17</td></tr><tr><td>FPA19 ENA CTR H</td><td>19,17,23</td><td></td><td>FPA21 FAULT H</td><td>21,17</td><td></td><td>MICB1 XBUF 01 H</td><td>17</td></tr><tr><td>-FPA19 FPA STALL H</td><td>19,17,23</td><td></td><td>-FPA21 FP RES OP H</td><td>21</td><td></td><td>MICB1 XBUF 02 H</td><td>17</td></tr><tr><td>FPA19 FPCLK0 H</td><td>20,19,23</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>FPA19 FPCLK1 H</td><td>19,28,23</td><td></td><td>-FPA21 FPA ENABLED H</td><td>21</td><td></td><td></td><td></td></tr></table>								SIGNAL NAME		PAGE NUMBER(S)	SIGNAL NAME		PAGE NUMBER(S)	SIGNAL NAME		PAGE NUMBER(S)	FPA18 EXP ANUX1 H	15,18,23		-FPA19 LD CTR H	19,17,23		-FPA21 FPA TRAP H	21	FPA18 EXP BLEG0 H	15,18,23		FPA19 LDPPR H	13,19,23		-FPA21 FPA V H	21	FPA18 EXP BLEG1 H	15,18,23					-FPA21 FPA Z H	21,17	FPA18 EXP BLEG2 H	15,18,23		FPA19 LMR1 H	19,17,8,23		-FPA21 LDPSL H	21	-FPA18 EXP CIH H	18,15,23		FPA19 MMR0 H	19,17,8,23		-FPA21 M CLK H	21,17	-FPA18 EXP LD A H	15,18,23		FPA19 MMR1 H	19,17,8,23		-FPA21 RFTC H	21	-FPA18 EXP LD B H	15,18,23		FPA19 MMR2 H	19,8,23		-FPA21 WR FPAENA H	21	-FPA18 EXP LD X H	15,18,23					-MBUS 00 H	1,2	FPA18 EXP RND H	18,15,23		FPA19 MMR1 H	19,8,23		-MBUS 01 H	1,2							-MBUS 02 H	1,2	FPA18 EXP TO MBUS H	15,18,23		FPA19 MMR2 H	19,8,23		-MBUS 03 H	1,2,15	FPA18 FQA ASEL8 H	14,18,23		-FPA19 NEXT00 H	17,19,23		-MBUS 04 H	2,1,15	FPA18 FQA ASEL1 H	14,18,23		FPA19 NEXT008 H	19,23				FPA18 FQA BSEL0 H	18,14,23		-FPA19 NEXT01 H	17,19,23		-MBUS 05 H	2,1,15	FPA18 FQA BSEL1 H	14,18,23		-FPA19 NEXT02 H	17,19,23		-MBUS 06 H	2,1	FPA18 FQA BSEL2 H	14,18,23					-MBUS 07 H	1,2,16,15	FPA18 FQA DEM H	18,14,23		-FPA19 NEXT03 H	17,19,23		-MBUS 08 H	2,16,15	FPA18 LD B FR MBUS H	15,18,2,1,23		-FPA19 NEXT04 H	17,19,23		-MBUS 09 H	2,16,15				-FPA19 NEXT05 H	17,19,23				FPA18 LD EMOD H	21,18,2,23		FPA19 NEXT06 H	19,18,23		-MBUS 10 H	2,16,15	FPA18 LD SIGNA H	18,16,23					-MBUS 11 H	2,15,16	FPA18 LD SIGNB H	18,16,23		FPA19 NEXT07 H	19,18,23		-MBUS 12 H	2,15,16				FPA19 NEXT08 H	19,13,4,5,23		-MBUS 13 H	2,15,16	FPA18 LSHIFT H	18,13,23					-MBUS 14 H	2,15,16	FPA18 SIGN CTRL8 H	18,16,23		FPA19 PPOEN H	19,13,4,5,23				FPA18 SIGN CTRL1 H	18,16,23					-MBUS 15 H	2,1	FPA18 SIGN XOR H	18,16,23		FPA19 PRR0 H	19,20,7,6,23		-MBUS 16 H	2	FPA18 SIGNA TO MBUS H	18,16,23		FPA19 PRR1 H	19,20,7,6,23		-MBUS 17 H	2	FPA18 SYNCHR UCODE DIS H	18,19,23		FPA19 RND0 H	19,7,23		-MBUS 18 H	2				FPA19 RND1 H	19,6,23		-MBUS 19 H	2	FPA18 UNPACK8 H	18,1,23		FPA19 RT NORM H	19,6,23		-MBUS 20 H	2	FPA18 UNPACK1 H	18,1,23		FPA19 SHFR00 H	19,14,23		-MBUS 21 H	2	FPA18 UNPACK2 H	18,1,23		FPA19 SHFR01 H	19,14,23		-MBUS 22 H	2	FPA18 UNPACK3 H	18,1,23		FPA19 SHFR02 H	19,14,23				FPA18 UNPACK4 H	18,1,23		FPA19 SHIFT B H	19,14,23		-MBUS 23 H	2	FPA18 WR MBUS H	18,1,23					-MBUS 24 H	1				FPA20 B CLK H	21,20,17,16		-MBUS 25 H	1	FPA19 ALU CIH H	19,7,23		-FPA20 DIV23 CLK EH H	28		-MBUS 26 H	1	FPA19 BCOMPL H	19,6,23		FPA20 FP CLK H	13,28,14,23		-MBUS 27 H	1									FPA19 BUT0 H	19,17,23		-FPA20 FP CLK H	15,14,19,18,17,16,2,7,6,8,1,20		-MBUS 28 H	1	FPA19 BUT1 H	19,17,23					-MBUS 29 H	1	FPA19 BUT2 H	19,17,23		-FPA20 FP CLK EH H	21,20		-MBUS 30 H	1	FPA19 BUT3 H	19,17,23		FPA20 SYNC PHASE 1 H	14,20,16,2,1				FPA19 BZERO H	19,14,23		-FPA20 SYNC PHASE 1 H	15,28		-MBUS 31 H	1				FPA21 EXPOR H	21,17		MICB1 XBUF 00 H	17	FPA19 ENA CTR H	19,17,23		FPA21 FAULT H	21,17		MICB1 XBUF 01 H	17	-FPA19 FPA STALL H	19,17,23		-FPA21 FP RES OP H	21		MICB1 XBUF 02 H	17	FPA19 FPCLK0 H	20,19,23							FPA19 FPCLK1 H	19,28,23		-FPA21 FPA ENABLED H	21			
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